



PRESSURE SENSITIVE SCROLLBAR FEATURE

Patent Number:  WO9718508
Publication date: 1997-05-22
Inventor(s): ALLEN TIMOTHY P; GILLESPIE DAVID; FERRUCCI AARON T
Applicant(s): SYNAPTICS INC (US)
Requested Patent: CN1202254
Application Number: WO1996US17862 19961106
Priority Number(s): US19950558114 19951113
IPC Classification: G06F3/033
EC Classification: G06F3/033D2, G06F3/033A1S2
Equivalents:  EP0861462 (WO9718508), JP11511580T
Cited Documents: EP0394614

Abstract

A proximity sensor system includes a sensor matrix array having a characteristic capacitance on horizontal and vertical conductors connected to sensor pads. The capacitance changes as a function of the proximity of an object to the sensor matrix. The change in capacitance of each node in both the X and Y directions of the matrix due to the approach of an object is converted to a set of voltages in the X and Y directions. These voltages are processed by circuitry to develop electrical signals representative of the centroid of the profile of the object, i.e., its position in the X and Y dimensions. Noise reduction and background level setting techniques inherently available in the architecture are employed. Pressure information is used to modify the scrolling speed.

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